

*Howland*  
Howland Is.

July 1966

RSC



RSC  
Howland Island  
12 July—  
1966

Sooty Returns  
for

July 12

July 15

July 21

✓ADP  
CPT  
Done 9/2/68



Bands Received  
12 July

953 - 00001 - 01000 ~~1000~~ 1000

00214 with feathers growing  
on the toes (white)

used

953 - 00001 - 00500 ST ad.

Bands Received 15 July

953 - 10001 - 10500

returned ~~7000~~ -  
100 - 500

001 - 100 ST ad.



Bands repaired  
17 July

used 953-13801 - 900 <sup>Sooty Tern</sup> ~~1000~~ <sup>imm</sup>

used 953-15001 - 15500 <sup>Sooty Tern</sup> <sup>adult</sup>

all { 953-15501 - 16,000 STad.

used 16001 - 16,500 STad.

used ST ad.

953-20001 - 21500 1500

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21 July

953<sup>3</sup> - 27501 - 29000



12 July 1966

Sooty Tern Banding

953-00001-00500

500 Ad.



✓ADP Sooty tern Returns  
12 July

773 ✓ 25366 on chick  
✓ 22030 " "  
✓ 20290 on egg  
✓ 23258 by chick  
✓ 39958 standing in colony

✓ 843-35277 sitting by chick  
✓ 37824 on chick  
✓ 55537 sitting in colony  
✓ 38253 on egg  
✓ 38586 sitting in colony  
✓ 55641 " " "  
✓ 36888 " " "  
✓ 39279 " " "  
✓ 39421 on egg

✓ADP Sooty tern Returns  
12 July

✓ 793-45162 on chick  
✓ 46219 " "  
✓ 48371 " egg  
✓ 44135 sitting in colony  
✓ 48583 with chick  
✓ 45379 " "  
✓ 48033 on chick  
✓ 30099 " "  
✓ 30760 " "  
✓ 30198 " "  
✓ 47462 " egg  
✓ 43907 " chick  
✓ 47867 standing in colony  
✓ 44229 " " "  
✓ 48053 " " "  
✓ 48508 " " chick  
✓ 44285 " " "  
✓ 43421 " " "  
✓ 30327 " in colony



Sooty Tern Returns  
12 July

✓ADP

793-49855 on egg ✓

Sooty Tern Banding  
15 July

953-10001-~~10500~~ Sta

10/100

100 Sta



ST Returns  
15 July

✓ADP

✓823-01933

✓01979

by chick B.P. Bare  
BPB

✓ADP ST Returns 15 July

✓773-24533

B.P. Bare

✓21673

BPB on egg

✓25497

BPB

✓25998

BPB

✓793-64215



✓ADP

Brown Booby Returns  
75 July

BB.

✓757-62855

Bl. spot in front of eye





Sooty Tern Egg measurements  
17 July

Double Clutches

( 49.80 x 35.35 )  
49.12 x 34.20 )

Single Clutches

50.10 x 35.53  
50.60 x 34.90  
51.40 x 35.35  
49.15 x 34.55  
48.35 x 33.20  
52.45 x 34.30  
52.00 x 34.55  
55.25 x 33.00

50.55 x 35.45  
52.35 x 33.77  
49.27 x 34.75  
51.20 x 34.87  
51.10 x 36.00  
46.05 x 34.77  
45.80 x 35.10  
50.01 x 33.05  
48.00 x 33.70  
49.85 x 36.25  
50.45 x 35.10  
51.05 x 33.80



## Sooty Tern counts.

Methods: Starting at the N end of the colony and working southwards. (Roughly 10,000 large chicks at N End.)

At about every 50 yards in the young chick and egg areas of the colony, one can expect roughly 1000 birds to hover over whereby they can be checked for streamers. This takes approximately 1 min / 1000. One can then walk ca. 50 yds and allow another batch to hover, circle and pass over the observer. Results follow by stops.

over



<u>Stop</u> <u>#</u>	<u>Painted</u> <u>Birds</u>	<u>No. Blue</u> <u>Streamers</u>	<u>w/o or</u> <u>No. S.</u> <u>Banded</u> <u>Birds</u>
1.	0	0	1
2.	0	2	0
3.	0	1	1
4.	1	4	0
5.	4	3	0
6.	0	19	0
7.	1	10	1
8.	4	7	0
9.	12	3	0
10	6	4	0
11	1	3	1
12	8	4	0
	<u>36</u>	<u>60</u>	



Sooty Tern Banding  
17 July

953-13801-900 ST. imm



Sooty Tern Banding  
19 July 1964

953 - 20001 - 21500 STad -



Blue-faced Booby  
Returns

19 July 1966

587-83522 ✓

83523 ✓

✓ ADP

757-63327 ✓

63496 ✓

63324 ✓

63041 w/ sm chick ✓

63100 ♀ ✓

83239 ♂ ✓

?

Blue-faced Booby  
Returns

✓ ADP

19 July 1966

737-28993 ♂ on 2 chicks ✓

28887 ♀ ✓

53500 ✓

28866 ♂ on 2 eggs ✓

20769 ✓

27945 ✓

53084 ♂ with chick ✓

53370 ✓

28785 w/ 1 large chick ✓

49766 ✓

28786 with chicks ✓

28827 ✓

53388 ✓

53377 ♀ ✓

28747 ♂ ✓

53193 ♀ w sm chick ✓



Gr. Frigate Returns  
19 July ✓ADP

---

737-26817 ♀ ✓

- 27203 imm. ✓

747-59389 imm. ✓

21 July 1966

ST. ad.

953-27501-29000



ST Returns

21 July

✓ADP

~~793-30630~~

~~BP ✓~~

~~47357~~

~~BP ✓~~

ST returns

21 July

✓ADP

773-29120

BP ✓

20346

BP ✓

22309

BP ✓

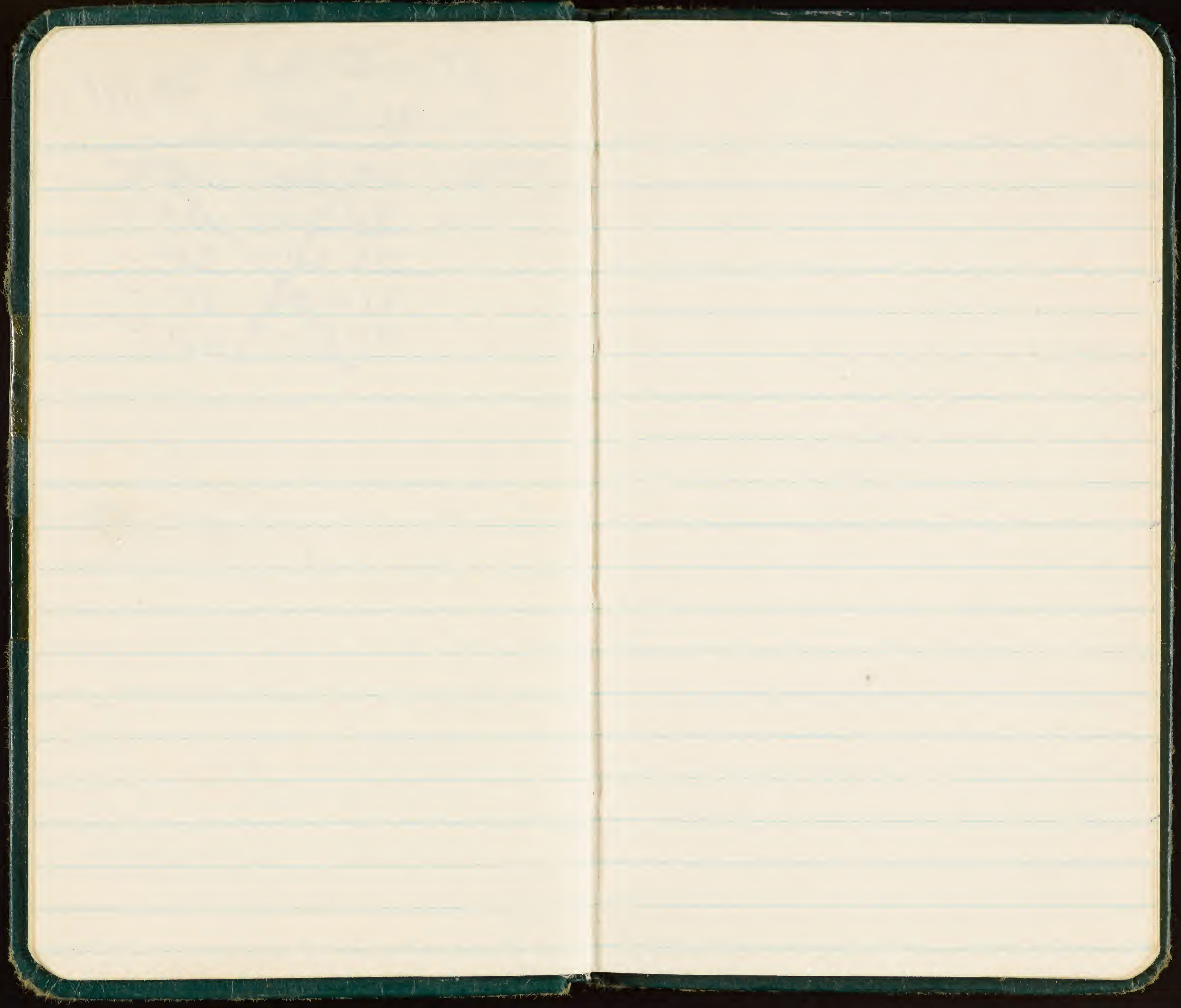
21484

BP ✓

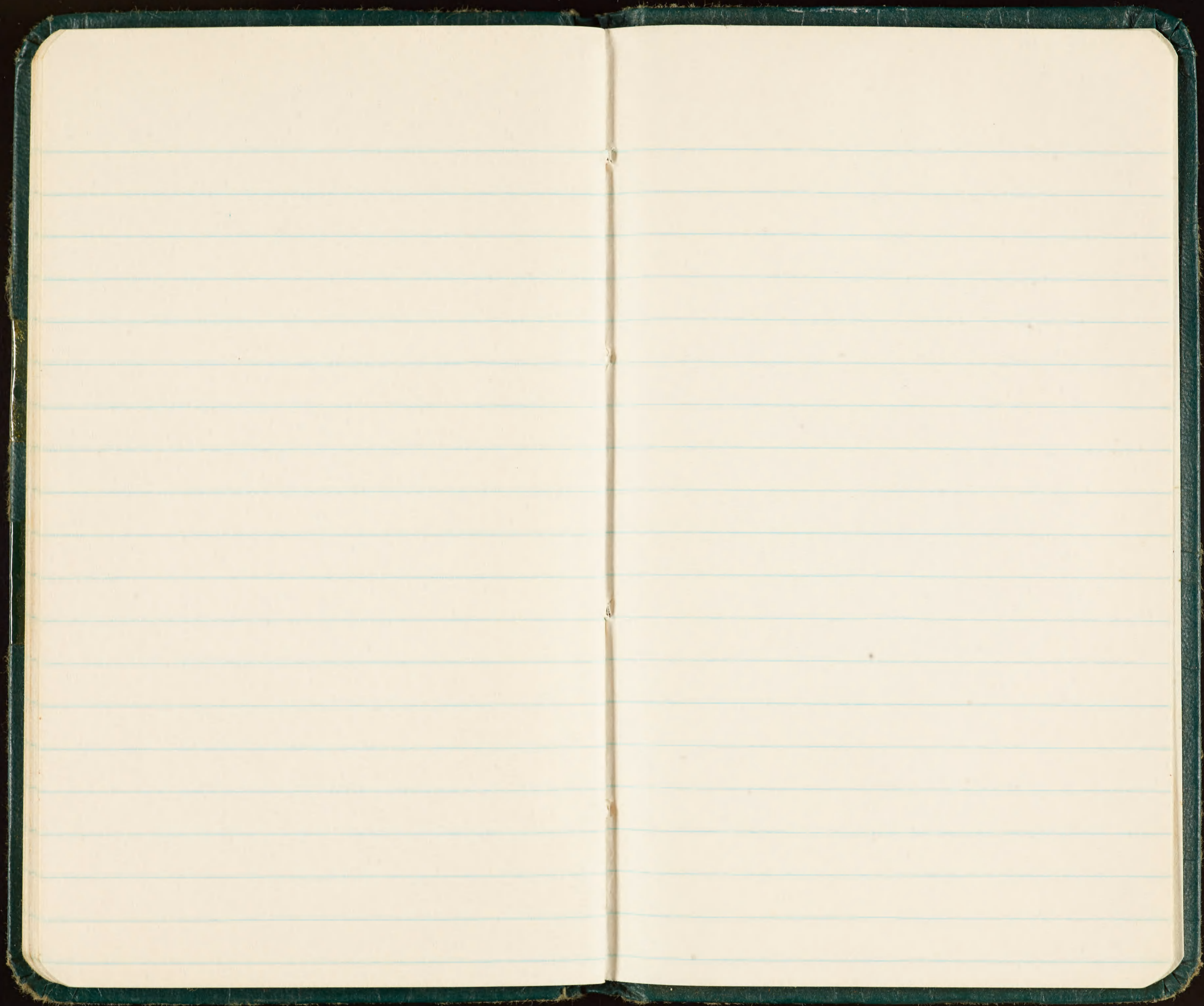
27015

BP ✓

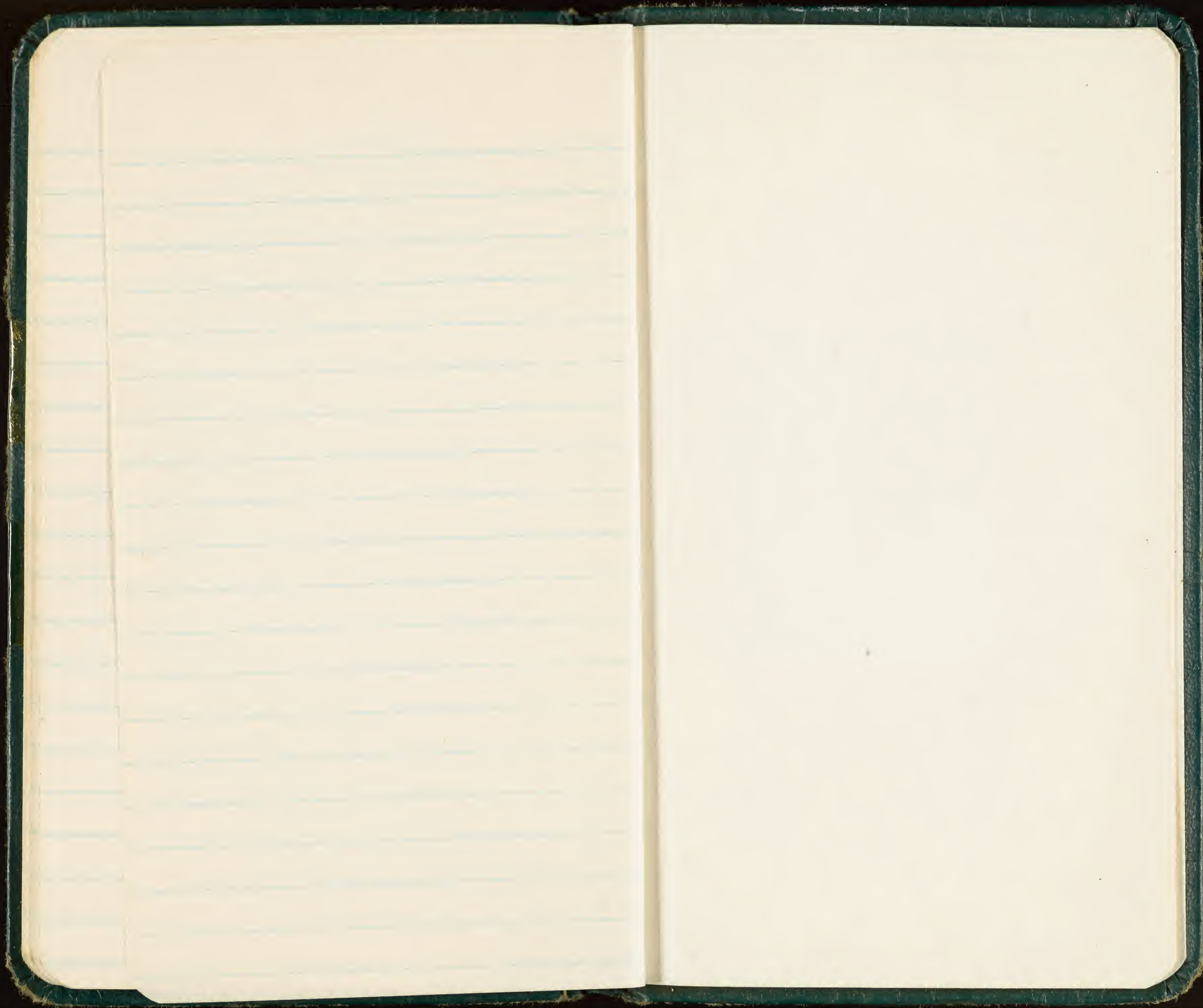


















7530-222-0078  
FEDERAL SUPPLY SERVICE



Hoff - Howland Island  
SIC 14 - July 1966

*Memoranda*



Howland Is,

12 July 1966

SIC # 14

Dave Hoff

✓ ADP  
CPH

Done 12/11/68

Sooty Terns

for

July 12

July 17

July 19

July 20

July 21



12 July  
Bands issued

953 - 06501 - 800  
~~07500~~

Bands used

953 - 06501 - 800



12 July Returns

Sooty Tern

✓ADP

773- 24 334 ✓

25 326 ✓

25 589 ✓

29 518 ✓

22 207 ✓

21 845 ✓

12 July Returns

Sooty Tern

✓ADP

793- 30 731 ✓

43 438 ✓

47 760 ✓

43 927 ✓

30 165 ✓

843- 37 701 ✓

55 462 ✓

37 484 ✓

38 255 ✓

35 877 ✓



Special returns

723-61001-61600



⑧ 17 July ✓ADP

793-~~72580~~ ✓BP  
72 755 ✓  
46 492 ✓  
72 711 ✓  
49 806 ✓  
30 207 ✓  
30 113 C ✓  
30 301 C ✓

15 July  
17 July

✓ADP 17 July (14)

773-25117 BP ✓  
35 387 B ✓  
22 366 C ✓  
200 22 C ✓  
24 237 C ✓

✓

✓55117e

843-~~36943~~ N B ✓  
~~36705~~ BP ✓  
~~37132~~ C ✓  
~~55689~~ C ✓  
~~35050~~ BP ✓  
~~36113~~ | ✓  
~~38367~~ | ✓  
(823-0199) 2 C ✓



⑧

✓ADP

17 July

793-44412 e ✓

30782 BP ✓

44513 c ✓

46090 e ✓

46451 BP ✓

49047 | ✓

44688 | ✓

44468 | ✓

✓ADP

17 July

⑧

773-24536 C ✓

24883 BP ✓

29633 e ✓

28875 BP ✓

20364 BP ✓

26839 1/2 ✓

26726 BP ✓

24135 BP ✓

843-36699 BP ✓

35737 | ✓

35687 C ✓

36465 e ✓

55818 BP ✓

36783 | ✓

36987 | ✓

38209 C ✓

37976 BP ✓



17 July

(3)

✓ADP

793-~~3528~~

~~306~~

30126 BP ✓

49920 NB ✓

43643 BP ✓

NB = no brood patch

17 July

(12)

✓ADP

773-

29294

BP ✓

24190

1 ✓

27542 e ✓

28553 C ✓

25706 C ✓

20108 e ✓

39845 C ✓

843-

35329 BP ✓

39263 1 ✓

36695 e ✓

55660 e ✓

37410 C ✓



✓ADP 17 July

793-45818 C ✓  
49270 C ✓  
49794 BP ✓  
48849 C ✓  
47109 C ✓  
30531 C ✓  
44584 ✓  
35699

17 July ✓ADP

773-21973 BP ✓  
28815 ✓  
29053 ✓  
21675 ✓  
21962 C ✓  
20323 C ✓  
21058 C ✓  
21433 C ✓  
27275 C ✓  
843-37314 BP ✓  
38550 C ✓



✓ADP

17 July

793-45992 e ✓  
48444 BP ✓  
48091 | ✓  
30883 | ✓  
48689 | ✓

17 July ✓ADP

773-25950 e ✓  
22488 BP ✓  
36241 e ✓  
24838 BP ✓  
21228 e ✓  
26430 BP ✓  
21482 e ✓  
843-48364 e BP ✓  
35327 BP ✓  
37575 | ✓  
37066 e ✓



17 July ~~VADP~~

793- 44215 C ✓

49049 BP ✓

45099 C ✓

46933 BP ✓

47757 C ✓

43358 C ✓

72621 BP ✓

49471 e ✓

45829 BP ✓

17 July ~~VADP~~

773- 29946 BP ✓

26552

(17939) ✓

25786 ✓

27225 e ✓

39836 e ✓

23367 BP ✓

24930 ✓

26865 ✓

843- 39075 C ✓

35950 NB ✓

55593 BP ✓

36561 e ✓

37585 e ✓

39176 BP ✓



✓ADP

17 July

793-31127 BP ✓  
47406 | ✓  
46216 | ✓  
46046 e ✓  
43822 1/2 ✓  
44809 BP ✓  
49799 | ✓  
49774 | ✓

17 July

✓ADP

773-29358 BP ✓  
39840 | ✓  
24157 | ✓  
29140 | ✓  
20224 | ✓  
23077 C ✓  
26242 e ✓  
21956 BP ✓  
28375 | ✓  
843-36598 | ✓  
35428 e | ✓  
55643 1/2 | ✓  
39334 | ✓  
38322 C ✓



✓ADP

17 July

793-44409 C ✓

48741 e ✓

49196 C ✓

45169 BP ✓

17 July

✓ADP

773-31235/BP ✓

28680 I ✓

20242 B ✓

17198 BP ✓

39824 I ✓

32018 C ✓

24611 BP ✓

21353 BP ✓

843-55748 e ✓



17 July VADP

793 - 46135 e  
48954 BP

17 July

VADP

773 - 24377 eC ✓  
23144 BP ✓  
23372 C ✓  
25302 BP ✓

Good #  
483 - 46311 BP



VADP

19 July

793-44821 ✓

43609 ✓

49847 ✓

44451 ✓

46247 ✓

45011 c ✓

44402 c ✓

44569 e ✓

46294 e ✓

43868 ✓

44847 ✓

43831 ✓

19 July

VADP

773-24497 ✓

26420 ✓

29588 ✓

24542 ✓

26565 ✓

23478 ✓

29485 ✓

20537 ✓

23131 ✓

21081 c ✓

843-36633 e e ✓

37618 ✓

35685 ✓

37784 ✓



✓ADP

19 July

793- 30 432 ✓

47 231 ✓

436 01 ✓

46 782 e ✓

30 465 ✓

45 694 ✓

46 221 ✓

47 169 ✓

45 818 ✓

49 717 e ✓

49 931 e ✓

48 619 ✓

47 274 e ✓

44 200 e ✓

43 338 e ✓

30 336 e ✓

36 304 ✓

30 012 ✓

19 July

✓ADP

773- 200 98 ✓

234 44 ✓

253 50 ✓

219 52 ✓

28 499 ✓

29 576 ✓

~~843- 38 691 ✓~~

~~35 926 ✓~~

~~55 290 ✓~~

~~35 900 ✓~~

~~35 195 ✓~~

~~37 257 ✓~~

~~38 321 ✓~~

~~39 314 c ✓~~

~~863- 80 735 ✓~~



✓ADP

19 July

check against 723

793-  
~~29155~~ ✓  
30322 ✓  
48571 ✓  
30264 ✓  
44373 ✓  
72533 ✓  
72990 ✓  
46276 e ✓  
48473 e ✓  
45825 ✓  
35699 ✓  
44471 ✓

18 July

✓ADP

723-  
39885 ✓  
28839 ✓  
29433 ✓  
26207 ✓  
39819 ✓ ?  
25781 ✓  
29291 ✓  
20028 ✓  
20334 ✓  
20005 ✓  
843-  
36485 ✓  
36585 ✓  
88801 ✓  
37116 e ✓



VADP

19 July

773- ~~43562~~ ✓  
~~39881~~ ✓  
~~45879~~ ✓  
~~46288~~ ✓  
~~47423~~ ✓  
~~45269~~ ✓  
~~45135~~ ✓  
~~45496~~ ✓  
~~44113~~ ✓  
~~72721~~ ✓

19 July

✓ VADP

773- ~~21523~~ ✓  
~~29825~~ ✓  
~~21599~~ ✓  
~~24762~~ ✓  
~~22029~~ ✓  
~~20457~~ ✓  
~~21099~~ ✓  
~~27235~~ ✓  
~~21251~~ ✓  
843- ~~37219~~ ✓  
36815 Red Paint ✓  
~~863-80073~~ ✓  
843- ~~36076~~ ✓



July 19  
~~843-39230~~ ✓

VADP

✓ADP July 15

773 24872 ✓

25299 ✓

39729 ✓ green point



20 July

Bands issued

953-26001

27500

20 July



20 July ✓ADP

793-47171  
44942

BP ✓  
BP ✓

20 July ✓ADP

773-29377  
21759  
24252  
22338  
29262  
26643  
22042  
22266

BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓

843-35403  
37170

BP ✓  
BP ✓



✓ADP 20 July

793-49545	BP ✓
47285	BP ✓
44331	BP ✓
49112	BP ✓
45822	BP ✓
36247	BP ✓
48579	BP ✓
729830	✓

20 July

✓ADP

773-26965	BP ✓
21764	BP ✓
26852	BP ✓
26764	BP ✓
24271	C ✓
26840	BP ✓
20139	BP ✓
24974	BP ✓
25290	BP ✓
843-37656	BP ✓
55356	BP ✓
35115	C ✓
36355	BP ✓



20 July

✓ADP

793-47558

BP ✓

46754

BP ✓

33812

BP ✓

20 July

✓ADP

773-39863

BP ✓

24004

BP ✓

275214

BP ✓

21545

BP ✓

25743

BP ✓

27416

BP ✓

26832

BP ✓

20375

BP ✓

843-38585

BP ✓

37285

BP ✓



20 July ✓ADP

793	44560	BP ✓
	47860	" ✓
	45128	" ✓
	46292	" ✓
	44809	" ✓
	43917	" ✓
	44929	" ✓
	44378	" ✓
	47822	" ✓
	49963	" ✓
	44962	" ✓

20 July ✓ADP

773	27269	BP ✓
	21123	" ✓
	39761	" ✓
	39977	" ✓
	23051	" ✓
	29900	" ✓
	25105	" ✓
	22140	" ✓
	22184	" ✓
843	37451	BP ✓
	38715	" ✓
	37243	" ✓
	36831	" ✓
	37110	" ✓



20 July

793-47994  
49408  
45851  
46590  
47497  
49967  
47439

✓ADP

BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓

38 31 20 38  
033  
088

953-23501

full brood patch just  
beginning to feather

2 July ✓ADP

773-29344  
39989  
29361  
21142  
27246  
28625

BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓

843-56521  
38434  
36802  
55401  
36001  
35004

BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓  
BP ✓



20 July

793-

20 July

773-

843



21 July ✓ADP

793-44707 Bp ✓

72911 " ✓

45892 " ✓

49298 " ✓

46381 " ✓

45383 " ✓

44386 " ✓

48680 " ✓

47794 " ✓

49338 e ✓

44611 Bp ✓

21 July ✓ADP

773-24383 Bp ✓

25923 " ✓

27377 " ✓

29839 " ✓

23411 " ✓

21489 " ✓

843-36410 Bp ✓

35412 " ✓

38358 " ✓

46381 " ✓

38828 " ✓

36419 " ✓

36098 " ✓

36010 " ✓

36079 " ✓

39178 " ✓



✓ADP 21 July

793- 30 21 3 Bp ✓  
44 6 21 " ✓  
48 3 38 " ✓  
49 1 2 1 " ✓  
49 4 5 6 " ✓  
45 8 9 8 " ✓  
39 5 5 6 " ✓  
45 3 6 9 " ✓  
44 6 4 3 " ✓  
45 0 7 1 " ✓  
30 2 7 1 " ✓  
44 3 6 6 " ✓  
30 0 5 9 " ✓  
44 6 1 2 " ✓  
30 2 3 6 " ✓  
30 9 2 1 " ✓  
30 9 1 3 " ✓

21 July ✓ADP

773- 22 1 2 4 C ✓  
23 4 2 4 Bp ✓  
21 0 0 2 " ✓  
21 5 8 6 " ✓  
28 5 4 4 " ✓  
29 1 5 9 " ✓  
27 1 2 1 " ✓  
23 4 7 2 " ✓

843- 35 2 2 1 Bp ✓  
38 6 8 6 C ✓  
38 3 5 2 Bp ✓  
45 8 8 2 " ✓  
36 7 5 6 " ✓



21 July

793 - 45762 Bp ✓  
 43941 " ✓  
 44768 " ✓  
 72931 " ✓  
 43795 " ✓  
 30007 " ✓  
 48614 " ✓  
 47037 " ✓  
 46813 " ✓  
 48312 on chick ✓  
 49279 BP ✓  
 49094 " ✓  
 44149 " ✓  
 47964 No BP ✓  
 30581 BP ✓  
 30992 " ✓  
 45112 " ✓  
 48541 " ✓  
 48325 " ✓

21 July

773 - 26135 Bp ✓  
 29690 " ✓  
 27236 " ✓  
 21199 " ✓  
 20728 " ✓  
 24385 " ✓  
 26348 on egg ✓  
 26822 BP ✓  
 843 - 35820 Bp ✓  
 39451 " ✓  
 37493 " ✓  
 38405 " ✓  
 38283 on egg ✓  
 38059 " ✓  
 55680 on chick ✓  
 37131 on egg ✓  
 38331 on chick ✓  
 39312 BP ✓



✓ADP

21 July Sorty time

843 ~ 38277 BP ✓

36761 " ✓

35680 " ✓

38530 " ✓

36757 " ✓

793 - 44146 / NOBP ✓

46725 BP ✓

21 July ✓ADP

173 29828 NOBP ✓

26008 BP ✓

28881 " ✓

21855 " ✓

28611 NOBP ✓

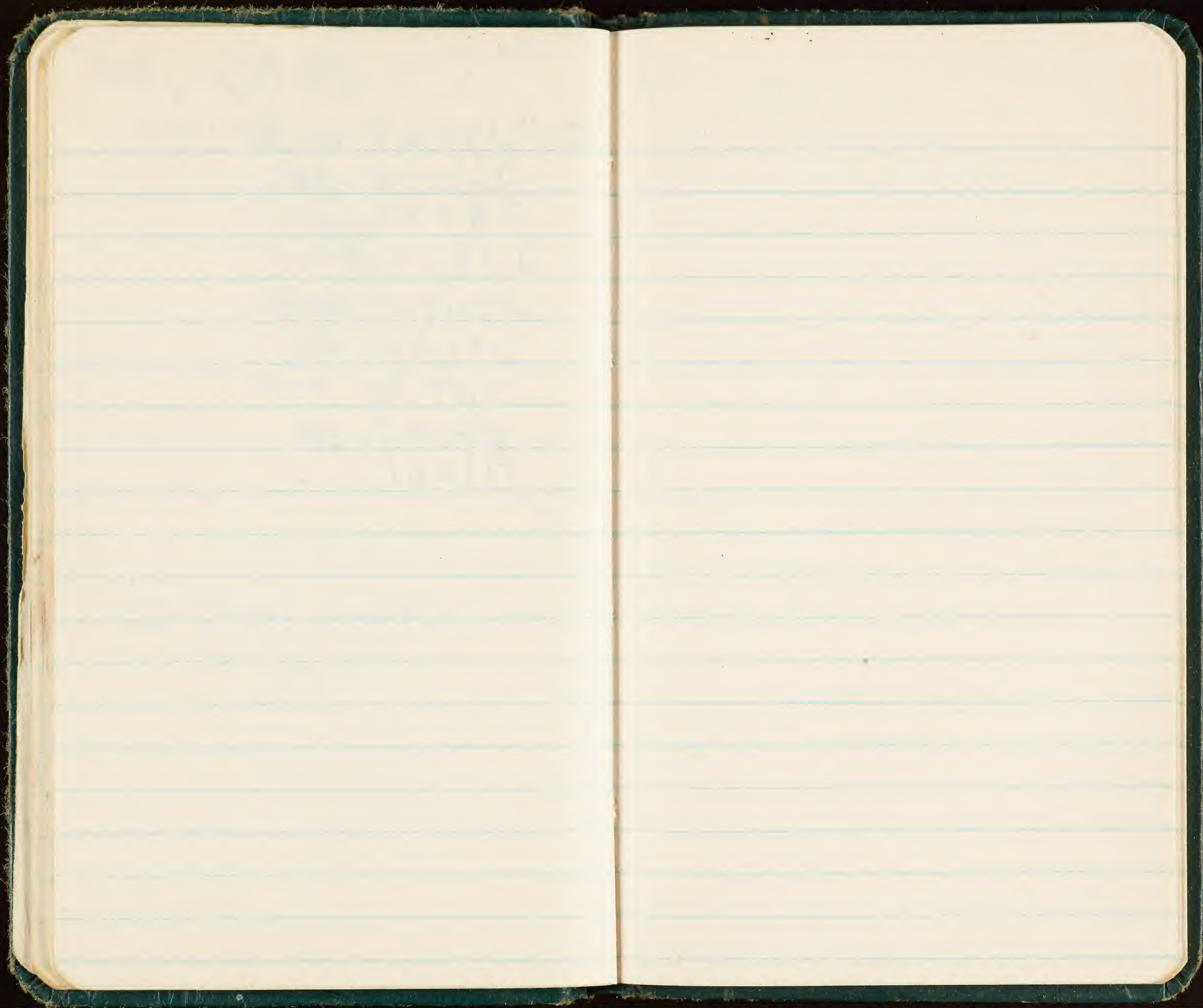
29678 BP ✓

26938 NOBP ✓

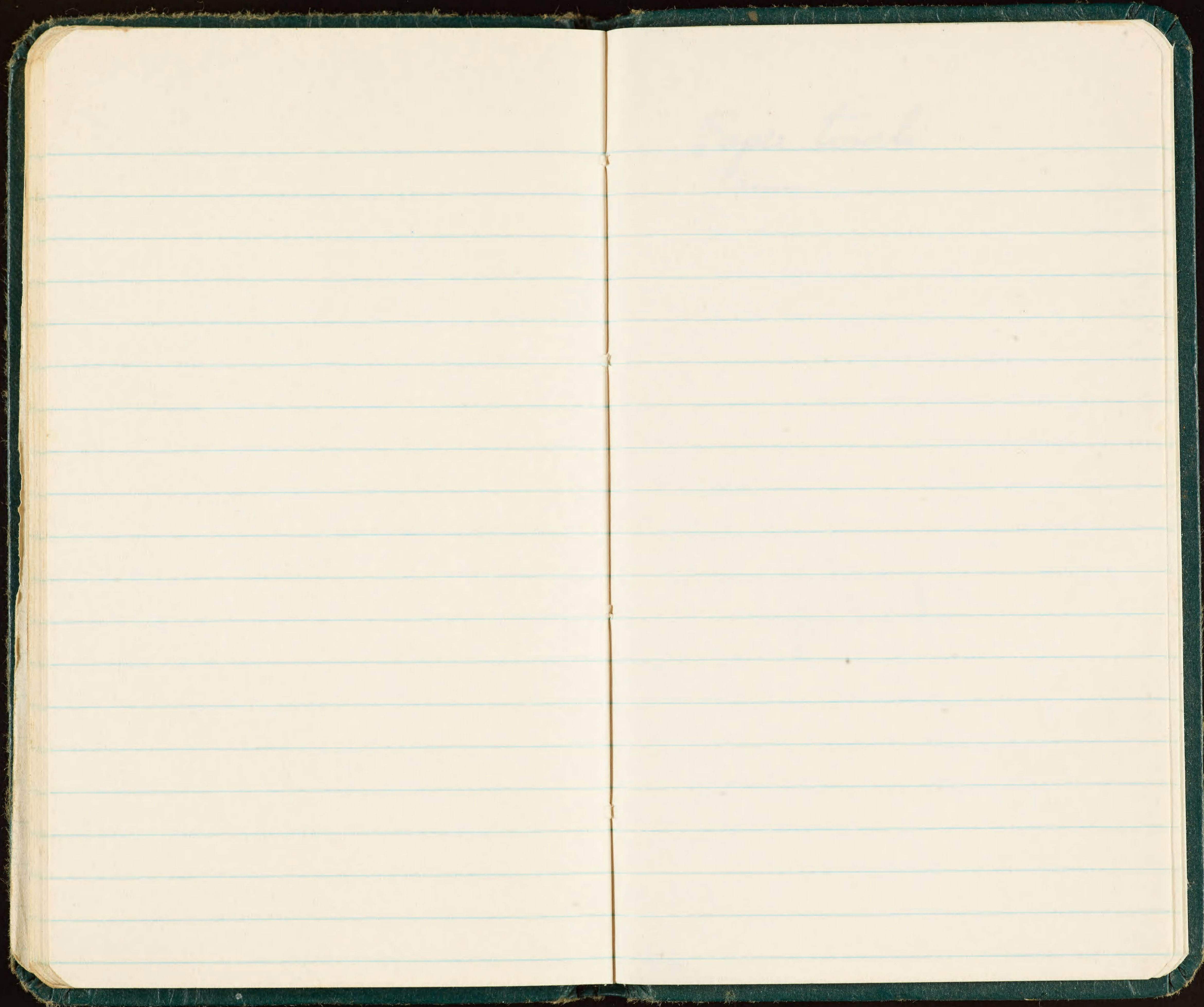
24746 BP

21261 ✓





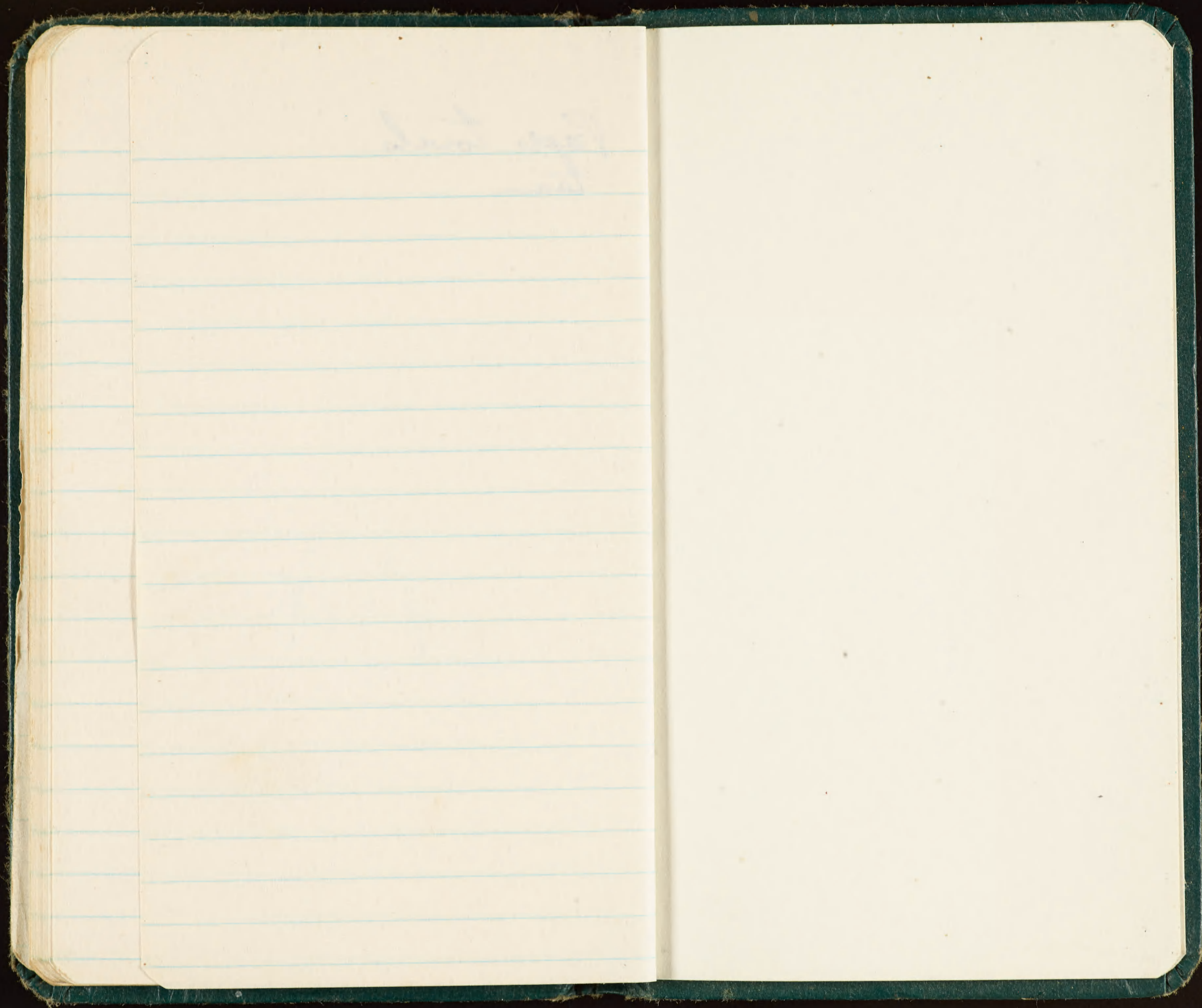






Paper towels  
team











**7530-222-0078**  
**FEDERAL SUPPLY SERVICE**



FEDERAL SUPPLY SERVICE

7530-222-0078

Handwritten note on a white label:  
H. J. ...  
... 9/66



LNH

Howland Is.

July 12, 1966

✓ ADP  
CPA  
Done 9/3/68

Sooty Returns  
for

July 12

July 14

July 16

July 18



Bands Received

12 July 1966

953-07501-08500

---

Bands Returned 12 July

953-07901-08500

---

Bands Received July 14,

953-03201-03300

953-04301-04500

953-05001-05500

953-02106-02200

---

July 16.

953-09001-09500

953-08701-08900

953-10101-10500



12 July, 1966

Sooty tern adult banding

953-07501 07900

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# Sooty tern Returns

723-61001-61600  
Banded in 1963.

843-55739 BP ✓  
38723 BP ✓  
36809 " ✓  
35552 " ✓  
37431 " ✓  
38599 1/4 ✓  
793-46662 BP ✓  
44385 BP ✓  
48001 " ✓  
31132 " ✓  
44740 BP 1/2 ✓  
43794 BP ✓  
72799 BP ✓

863-81072 BP ✓  
80897 1/2 ✓

# Sooty tern Returns <sup>July 12, 1968 - Howland</sup> ✓ ATP

773-22302 BP ✓  
29301 " ✓  
27302 " ✓  
23004 " ✓  
39959 " ✓  
21887 " ✓  
20490 " ✓  
39738 " ✓  
29505 1/4 ✓  
29542 BP ✓  
21197 " ✓  
25799 " ✓  
20280 " ✓  
29112 " ✓  
26065 " ✓  
24020 " ✓  
27026 " ✓



Sooty tern Ad. Returns  
12 July, 1966

843 39360  
35502 BP  $\frac{1}{2}$  ✓  
37502 BP ✓  
36967 " ✓  
55454 " ✓  
36390 " ✓  
37570 " ✓  
37683 " ✓  
38082 " ✓  
55749 " ✓

773- 27443 BP ✓

22411 " ✓

21006 " ✓

26720 on SC ✓

23336 BP ✓

26560  $\frac{1}{2}$  ✓

27383 BP ✓

29873 " ✓

Sooty tern Ad Returns  
12 July, 1966

793- 47876 BP ✓

48695 " ✓

72728 " ✓

47717 " ✓

46106 " ✓

46004 " ✓

30932 " ✓

49555  $\frac{1}{2}$  ✓

49769  $\frac{3}{4}$  ✓

47834 BP ✓

72670  $\frac{3}{4}$  ✓

99959 BP ✓

46666 " ✓

46430 " ✓

44417 " ✓

45308 " ✓

38014 " ✓

46397 ✓



Sooty Tern Ad Returns  
July 12 1966

843-43402 BP ✓

38535 " ✓

35991 " ✓

35652 " ✓

38481 " ✓

38010 " ✓

35203  $\frac{3}{4}$  ✓

36849 BP ✓

35684 " ✓

Sooty Tern Returns  
July 12 1966

773-22328 BP ✓

23154 " ✓

24008 " ✓

20178 " ✓

39946 " ✓

25521 " ✓

24850 " ✓

26516 " ✓

21176 1 ✓

23277  $\frac{1}{2}$  ✓

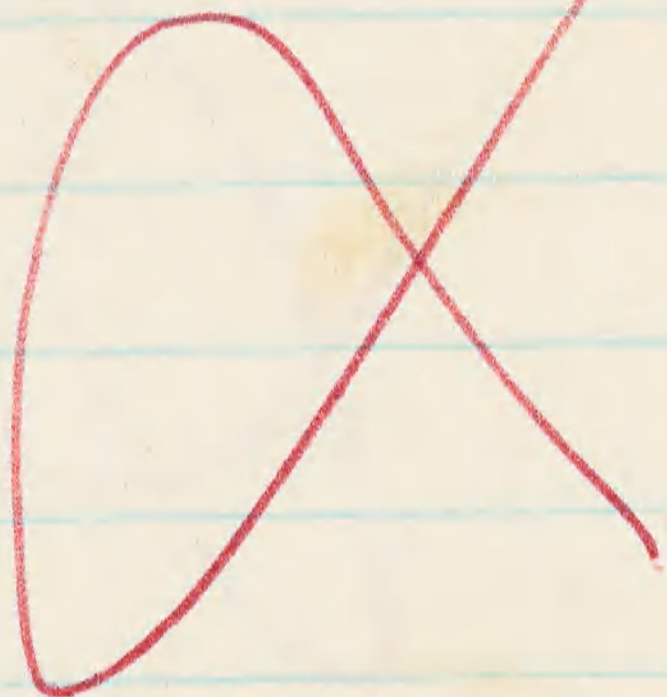
25992 BP ✓



July 14 Sooty Recoveries  
863-80841

✓ADP

~~Sooty tern ad Returns July 14~~  
~~773-24350 on egg ✓~~  
~~26591 " " ✓~~  
~~29107 " " ✓~~  
~~24360 " " ✓~~  
~~29928 " " ✓~~  
793-30241 BP ✓



July 14 Sooty tern Nesting  
953-02106-02200  
953-03201-03300  
953 04301-04500



July 16. Sooty tern nestlings

953-08701-08900

09001-09500

10101-10500



16 July, 1966. Sooty tern Ad.

793-47076 Brood patch ✓  
~~30015~~ " ✓  
 47243 " ✓  
 30337  $\frac{1}{2}$  BP ✓  
 48956 Brood patch ✓  
 43735 on egg ✓  
 44722 Brood patch ✓  
 49991 " ✓  
 43746 " ✓  
 49255 " ✓  
 46622 on egg ✓  
 43714 on egg ✓  
 46818 Brood patch ✓  
 49986 NO BP ✓  
 46331 Brood patch ✓  
 43994 " ✓

843-35780 Brood patch ✓  
 55025 " ✓  
 55607  $\frac{1}{2}$  BP ✓ (CW)  
 55538 on chick ✓  
 36320 Brood patch ✓  
 37130 " ✓  
 39438  $\frac{1}{2}$  BP ✓  
~~37533~~ ~~on egg~~  $\frac{1}{2}$  BP ✓  
 773-26345 Brood patch ✓  
 29529 " ✓  
 24163 " ✓ (OK)  
 28699 on egg ✓  
 29286 Brood patch ✓  
 26804 on egg ✓  
 26585  $\frac{3}{4}$  BP ✓  
 22135  $\frac{1}{2}$  BP ✓  
 39597 Brood patch ✓  
 21740 " ✓  
 39937 on egg ✓  
 22128 " " ✓



July 16

~~793-31165~~

Brood patch ✓

47670

on egg ✓

72680

1/2 BP ✓

44701

Brood patch ✓

47166

on chick ✓

45517

on chick ✓

46964

" " ✓

47604

Brood patch ✓

65292

" ✓

45495

" ✓

46912

on egg ✓

45155

on chick ✓

43973

Brood patch ✓

30076

on egg ✓

49302

on chick ✓

48574

on egg ✓

30554

on egg ✓

48974

on chick ✓

July 16

20

~~77325102~~

Brood patch ✓

~~28863~~

" ✓

~~26787~~

" ✓

~~25784~~

" ✓

~~29088~~

" ✓

~~24289~~

on egg ✓

~~29060~~

on chick ✓

~~28724~~

on egg ✓

~~27257~~

Brood patch ✓

~~29437~~

" ✓

~~21926~~

on egg ✓

~~29188~~

on egg ✓

~~27388~~

Brood patch ✓

843-38661

" ✓

~~35378~~

" ✓

~~35898~~

on egg ✓

~~38878~~

on chick ✓

~~37155~~

Brood patch ✓

~~37309~~

on chick ✓

~~36832~~

on egg ✓



15

July 16

793 47216

on chick ✓

~~31128~~

on chick ✓

46124

Brood patch ✓

~~30854~~

"

49119

on egg ✓

45333

Brood patch ✓

46260

on egg ✓

44393

Brood patch ✓

72626

"

48367

on egg ✓

48497

Brood patch ✓

46625

on egg ✓

~~30063~~

on egg ✓

61003

Brood patch ✓

45479

on egg ✓

July 16

773-23233

on chick ✓

26229

"

25865

"

27589

on egg ✓

23113

" "

25780

" "

24254

" "

20043

on egg ✓

26936

Brood patch ✓

25760

"

23036

on egg ✓

25466

on egg ✓

25350

Brood patch ✓

843-36981 Brood patch ✓

55594 on egg ✓

37141

" "

35704

on egg ✓

36981

Brood patch ✓

35985

on egg ✓

36148

off egg ✓

Same bird

20



20

July 16

793 - 44770 Brood patch ✓

47765 " ✓

44303 " ✓

30790 " ✓

43912 " ✓

72664 " ✓

48484 " ✓

49160 " ✓

44511 " ✓

45590 " ✓

49728 " ✓

44667 3/4 BP ✓

48552 Brood patch ✓

48890 " ✓

48790 " ✓

45601 " ✓

44364 " ✓

43376 " ✓

44346 1/2 BP ✓

43933 Brood patch ✓

✓ADP

X

July 16

773 - 20231 Brood patch ✓

39970 " ✓

39890 " ✓

25515 " ✓

24994 " ✓

21053 " ✓

25246 No BP ✓

21458 Brood patch ✓

26677 " ✓

23055 No BP ✓

✓ADP

843 37552 Brood patch ✓

36524 " ✓

55836 " ✓

35821 " ✓

55061 " ✓

37072 " ✓

55767 " ✓

38978 " ✓

38663 on egg ✓



(18)

July 16

793 42414 Brood patch ✓

~~31198~~

44553 ✓

30497 ✓

48727 ✓

46481 ✓

47536 ✓

45429 ✓

47188 ✓

49379 ✓

30024 ✓

44902 ✓

45906 ✓

~~3838~~

30338 ✓

72701 ✓

46788 ✓

43886 ✓

72773 ✓

773

July 16

20 406

26 437

21 651 egg ✓

22 325 Brood patch ✓

26 504 ✓

29 736 ✓

26 106 ✓

29 042 ✓

27 305 ✓

28 527 ✓

843- 39 194 ✓

39 087 ✓

~~239~~

38 490 ✓

35 001 ✓

30 350 ✓

37 207 ✓

38 242 ✓

55 029 ✓



✓ADP

July 16

(4)

✓93-49630 Brood patch ✓

30580 "

✓ 30546 "

✓ 48972 "

P

July 16

(15)

773-25438 Brood patch ✓

-39688 " ✓

24425 " ✓

24964 No brood ✓

22137 Brood patch ✓

25488 " ✓

21722 " ✓

21466 " ✓

843-55097 ✓ 1/2 ✓

35920 ✓ 55848 ✓

36203 Brood patch ✓

✓36611 ✓ - 37093 ✓

863-80892 Brood patch ✓



July 16 (8)

773-26689 Breed patch ✓  
 26386 " ✓  
 24893 " ✓  
 29087 " ✓  
 20302 " ✓  
 24408 " ✓  
 26304 " ✓  
 29266 " ✓

July 16 (17) Breed patch

✓793-147388 ✓ (39813)  
 ✓43434 ✓ (49505)  
 ✓48646 "  
 ✓43718 "  
 ✓30041 "  
 ✓(46914) "  
 ✓30310 "  
 ✓(44302) "  
 ✓(46529) crush ✓  
 ✓30048 BP  
 ✓(47623) "  
 843-37913 "  
 ✓35039 "  
 ✓35383 C ✓  
 ✓55015 BP



10

July 16.

793-43587 Brood  
✓ 48889 pair  
✓ 46665 y  
✓ 44470 chick  
✓ 49123 pair  
✓ 43330 pair  
✓ 63516 chick  
✓ 44937 pair  
✓ 45976 egg  
✓ 49564 c

16 July

773-23181 dead  
20202 " ✓  
20128 egg ✓  
29430 y ✓  
24531 chick ✓  
2474 chick ✓  
21913 Brood pair ✓  
39725 " ✓  
28286 " ✓  
843-38083 " ✓  
35799 " ✓  
35717 "

27 1/6 (13)



July 16

(5)

793-

49763

48184

44734

48737

30328

✓ ~~Broad patch~~

✓ ~~BP~~

✓ "

✓ "

✓ No BP

July 16

(3)

773-29716

26057

✓ ~~Broad patch~~

" 138

~~843-~~

~~36877~~

✓ Broad patch



July 18

Lesser Frigate Recovery

777-51617

Ad ♀

---

Sooty Tern Recovery

793-45797 Ad



July 18, Sooty tern Pet

793-47770 ✓ No BP

46548 ✓

48002 ✓

49838 ✓

47876 ✓

46955 ✓ No BP

72527 ✓

45909 ✓

46138 ✓

43944 ✓

72644 ✓

48078 ✓

44776 ✓ No BP

43678 ✓

30932 ✓

30644 ✓

48051 ✓ No BP

43939 ✓

48017 ✓

46760 ✓

All have BP  
exceptions

✓ ADP

773-21516 No BP ✓

29133 ✓

26288 ✓

25504 ✓

20411 ✓

27153 ✓

39584 old BP ✓

39560 " " ✓

21731 " " ✓

22063 ✓

21615 ✓

843-36372 ✓

35552 ✓

36687 ✓

38522 ✓

38103 ✓

35381 ✓

55422 ✓

35255 ✓



843-37201 ✓

35823 ✓

35947 ✓

39129 No BP ✓

39483 ✓

55384 ✓

36265 ✓

39029 No BP ✓

39352 ✓

38556 ✓

35009 ✓

38700 ✓

55376 ✓

36479 ✓

863-50659 No BP ✓

July 18, 1966

✓ ADP

773-24445 ✓

25338 ✓

25870 ✓

25389 ✓

29328 ✓

23340 ✓

39893 ✓

26085 ✓

22236 ✓

23050 ✓

23381 No BP ✓

24832 ✓

24489 ✓

27679 ✓

27462 ✓

22137 ✓

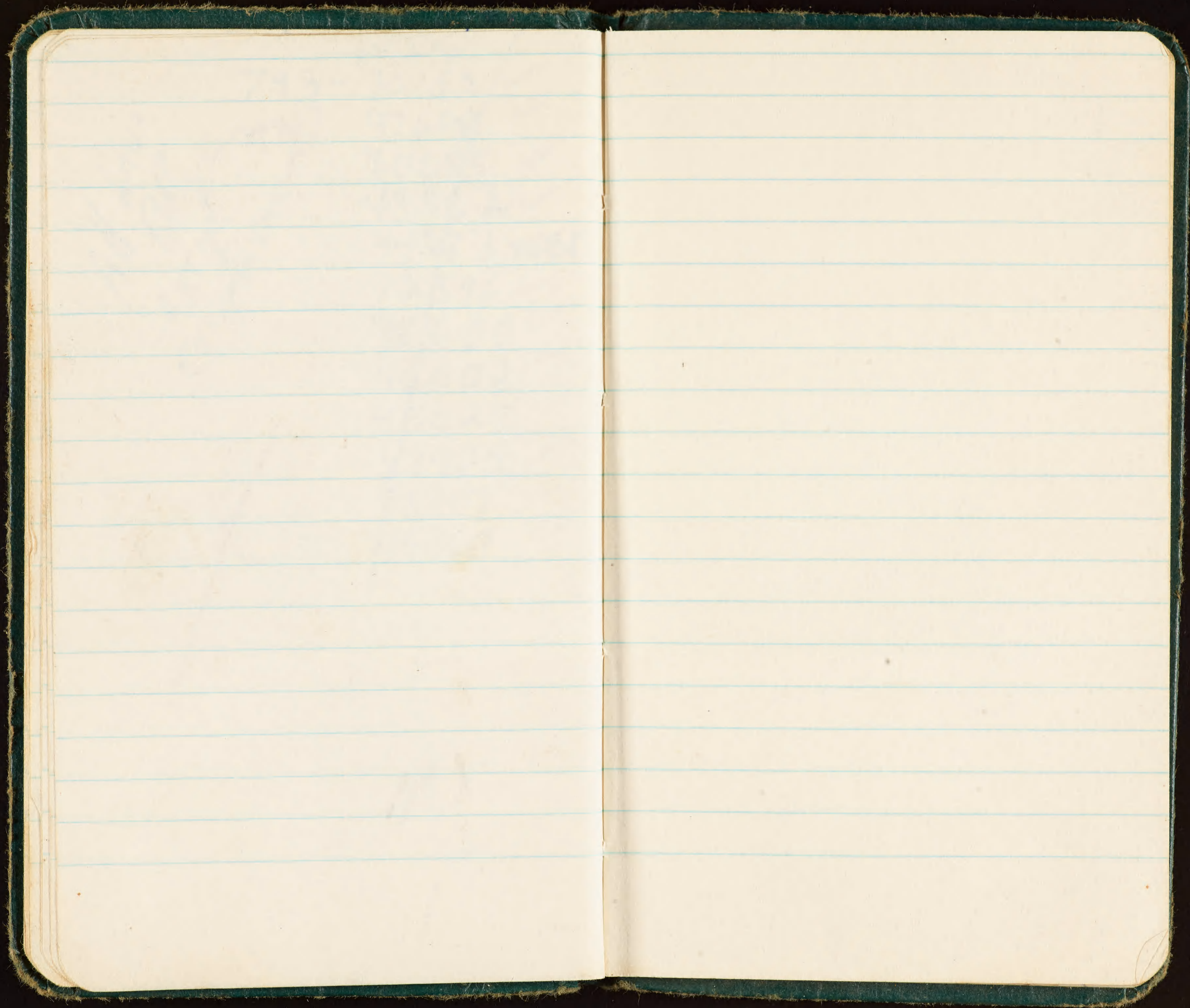


All have  
BP  
except  
exceptions

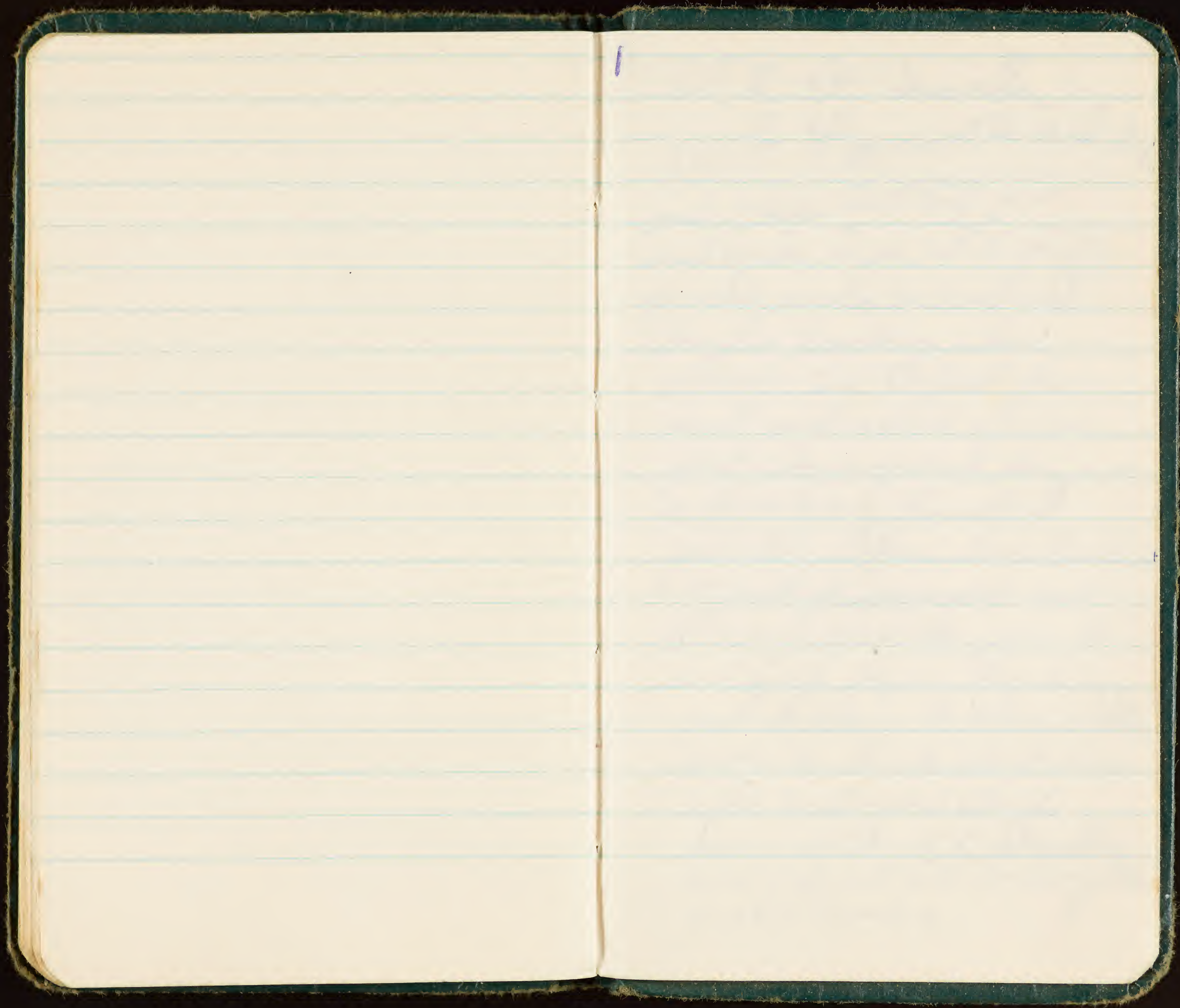
X

18 July  
793-30752 ✓  
47608 ✓  
30655 ✓  
43962 ✓  
44283 no BP  
72596 ✓  
48600 ✓  
46002 ✓  
45028 ✓  
47925 ✓  
43807 ✓  
45069 ✓











Donads 4x3  
4x3

2 BFB

10.50 ♂ ~~next~~ next to med. chick  
and ♀ takes first high pass  
and honks once while passing  
quickly circles around and  
begins landing when  
about 60-80 feet from  
nest and about 15-20  
feet above ground begins  
a honking loud and  
quickly when lands about  
15 feet from nest and  
♂ runs over to join ♀  
and both begin honking  
and billing. ♀ then walks  
over to chick about 1 min  
after landing and stands  
over chick while ♂ walks  
around nest site honking while  
♀ still honks



at 1054 ♂ stops honking  
and takes off. at 1055  
♀ begins feeding young.  
feeding lasted only ~~about~~ a short  
~~time~~ while. ♂ never seen again

3

~~04437~~

A 7x2

Chick BP

R 4x2

12x6 ovary Chick BP



at m -

or

♀

fe

~~fe~~  
l

11



$$\begin{array}{r} 8 \\ 23 \\ 17 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 8 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 19 \\ \hline 75 \\ 38 \end{array}$$

$$\begin{array}{r} 111 \\ 19 \\ \hline 130 \end{array}$$

$$\begin{array}{r} 130 \\ 35 \\ \hline 165 \\ 38 \end{array}$$

$$\begin{array}{r} 293 \\ 36 \\ \hline 259 \end{array}$$



Chromola